

CLAIMS

What is claimed is:

- 1 1. A system for capturing and embedding high-resolution still image data in
2 a sequence of video data, comprising:
3 an image capture element for capturing a sequence of video data during a first
4 mode of operation, the sequence of video data captured at a first resolution;
5 a user interface for entering into a second mode of operation, the second mode
6 of operation being at a second resolution, the second resolution being greater than the
7 first resolution; and
8 a memory for storing data captured at the second resolution.
- 1 2. The system of claim 1, wherein the second mode of operation captures
2 data corresponding to still image data.
- 1 3. The system of claim 2, wherein the still image data is embedded between
2 frames of video data.
- 1 4. The system of claim 2, wherein the still image data has a resolution of at
2 least 640 pixels by 480 pixels.
- 1 5. The system of claim 1, wherein the user interface allows toggling
2 between the first resolution and the second resolution.

1 6. The system of claim 5, wherein the toggling between the first resolution
2 and the second resolution occurs using a single control on the user interface.

1 7. The system of claim 1, wherein the sequence of video data captured
2 during the first mode of operation is divided into video frames and data generated at the
3 second resolution is divided into still frames, and the video frames and the still frames
4 alternate sequentially.

1 8. The system of claim 7, wherein the video frames and the still frames
2 alternate non-sequentially.

1 9. A method for capturing and embedding high-resolution still image data in
2 a sequence of video data, comprising:

3 capturing a sequence of video data during a first mode of operation, the
4 sequence of video data captured at a first resolution;

5 entering into a second mode of operation, the second mode of operation being at
6 a second resolution, the second resolution being greater than the first resolution;

7 capturing data at the second resolution; and

8 storing the data captured at the second resolution.

1 10. The method of claim 9, wherein the second mode of operation captures
2 data corresponding to still image data.

1 11. The method of claim 10, further comprising embedding the still image
2 data between frames of video data.

1 12. The method of claim 10, wherein the still image data has a resolution of
2 at least 640 pixels by 480 pixels.

1 13. The method of claim 9, further comprising toggling between the first
2 resolution and the second resolution.

1 14. The method of claim 13, wherein the toggling between the first
2 resolution and the second resolution occurs using a single control on the user interface.

1 15. The method of claim 9, further comprising:
2 dividing the sequence of video data captured during the first mode of operation
3 into video frames;
4 dividing the data generated at the second resolution into still frames; and
5 sequentially alternating the video frames and the still frames.

1 16. The method of claim 15, wherein the video frames and the still frames
2 alternate non-sequentially.

1 17. The method of claim 9, further comprising:
2 transferring the data stored at the second resolution to a printing device; and
3 using the data stored at the second resolution to render a photograph.

1 18. A digital video camera having a system for capturing and embedding
2 high-resolution still image data in a sequence of video data, comprising:
3 an image capture element for capturing a sequence of video data during a first
4 mode of operation, the sequence of video data captured at a first resolution;
5 a user interface for entering into a second mode of operation, the second mode
6 of operation being at a second resolution, the second resolution being greater than the
7 first resolution; and
8 a memory for storing data captured at the second resolution.

1 19. The system of claim 18, wherein the second mode of operation captures
2 data corresponding to still image data.

1 20. The system of claim 19, wherein the still image data is embedded
2 between frames of video data.

1 21. The system of claim 19, wherein the still image data has a resolution of at
2 least 640 pixels by 480 pixels.

1 22. The system of claim 18, wherein the user interface allows toggling
2 between the first resolution and the second resolution.

1 23. The system of claim 22, wherein the toggling between the first resolution
2 and the second resolution occurs using a single control on the user interface.

1 24. A computer readable media having a program for capturing and
2 embedding high-resolution still image data in a sequence of video data, the program
3 comprising logic for:

4 capturing a sequence of video data during a first mode of operation, the
5 sequence of video data captured at a first resolution;

6 entering into a second mode of operation, the second mode of operation being at
7 a second resolution, the second resolution being greater than the first resolution;

8 capturing data at the second resolution; and

9 storing the data captured at the second resolution.

1 25. The program of claim 24, wherein the second mode of operation captures
2 data corresponding to still image data.

1 26. The program of claim 25, further comprising logic for embedding the still
2 image data between frames of video data.

1 27. The program of claim 25, wherein the still image data has a resolution of
2 at least 640 pixels by 480 pixels.

1 28. The program of claim 24, further comprising logic for toggling between
2 the first resolution and the second resolution.

1 29. The program of claim 28, wherein the toggling between the first
2 resolution and the second resolution occurs using a single control on the user interface.

1 30. The program of claim 24, further comprising:
2 logic for dividing the sequence of video data captured during the first mode of
3 operation into video frames;
4 logic for dividing the data generated at the second resolution into still frames;
5 and logic for sequentially alternating the video frames and the still frames.

1 31. The program of claim 30, wherein the video frames and the still frames
2 alternate non-sequentially.

1 32. The program of claim 24, further comprising:
2 logic for transferring the data stored at the second resolution to a printing
3 device; and
4 logic for using the data stored at the second resolution to render a photograph.

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